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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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John P. Ward
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
Seventh Floor
12400 Wilshire Boulevard
Los Angeles, CA 90025-1026

EXAMINER

NGUYEN, FRANCIS N

ART UNIT PAPER NUMBER

2674

DATE MAILED: 12/26/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/823,831

Applicant(s)

GAMSARAGAN ET AL.

Examiner

FRANCIS NGUYEN

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-28 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 8-16, 18-24 and 26-28 is/are rejected.
- 7) ☒ Claim(s) 7, 17 and 25 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 March 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the limitation storage device , non-volatile storage device must be shown or the feature(s) canceled from the claim(s) 6-7, 16-17. No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

2. The disclosure is objected to because of the following informalities: text of paragraphs 0005 and 0006 duplicate text of paragraphs 0002 and 0003 of page 1. Appropriate correction is required.

3. The disclosure is objected to because it contains an embedded hyperlink and/or other form of browser-executable code (page 6, paragraph 0027, line 7). Applicant is required to delete the embedded hyperlink and/or other form of browser-executable code. See MPEP § 608.01.

Claim Objections

4. Claims 9 , 18, 19-28 are objected to because of the following informalities: improper period after word “network”(page 9, claim 9, line 2), incorrect word “computer” instead of “method” (page 10, claim 18, line 1), incorrect word “subsystem” in claim 19 (page 10, line 1)

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because said subsystem has to belong in a larger system which is not defined, incorrect phrase “the computing display subsystem of claim... wherein said computing display subsystem” in each of dependent claims 20-28 (page 10 and 11, line 1 of claim 20 through claim 28) . Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-4, 8-14, 18-22, 26-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Richardson et al. (US Patent 6,028,764).

As to **claims 1 and 11**, Richardson et al. discloses a computer (**portable computer 10**, see Abstract, column 1, line 65) and associated method comprising:

a base station, said base station having a storage device (**housing 12 comprising system memory 36, hard disk drive 42**, column 2, lines 63-67);

a computing display subsystem detachably connectable to said base station (**a variety of detachable connectors may be used to connect the housing 14 to the housing 12, open ring 28 which journals a shaft 26**, column 2, lines 28-32) , said computing display subsystem including a processor (**display controller 52**, column 3, lines 4-8, figure 7) and a communication adapter (**adapters 54a/54b**, column 3, lines 8-12, figure 7) that permits said

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computing display subsystem to communicate with said base station when said computing display subsystem is detached from said base station (column 2, lines 5-9).

As to **claims 2 and 12**, Richardson et al. further discloses the computer of claim 1 (see the same citation for claim 1) and associated method wherein said computer display subsystem includes a power supply separate from the base station (**power supply 60**, column 3, lines 18-19).

As to **claims 3 and 13**, Richardson et al. further discloses the computer of claim 1 (see the same citation for claim 1) and associated method wherein said computing display subsystem and said base station communicate using infrared signals (**infrared communication link**, column 2, lines 10-11, column 3, lines 31-32).

As to **claims 4 and 14**, Richardson et al. further discloses the computer of claim 1 (see the same citation for claim 1) and associated method wherein said computing display subsystem and said base station communicate using radio frequency signals (**radio frequency communication link**, column 2, line 11).

As to **claims 8 and 18**, Richardson et al. further discloses the computer of claim 1 (see the same citation for claim 1) and associated method wherein the communication adapter of the computing display subsystem communicates with the base station via a Bluetooth protocol (**Bluetooth radio link**, column 3, lines 59-60).

As to **claim 9**, Richardson et al. further discloses the computer of claim 1 (see the same citation for claim 1) wherein said base station includes a keyboard , a processor and a connection to a network (**keyboard 16, processor 32, modem 50** as shown in figure 7, column 2, line 61, column 3, lines 1-3).

As to **claim 10**, Richardson et al. further discloses the computer of claim 1 (see the same citation for claim 1) wherein the processor of the computing display subsystem operates at two separate power modes contingent on a power source (**power supply 60 is a battery power supply but the power supply may include an AC adapter to power the display 18, capacitive storage element**, column 3, lines 18-30).

As to **claim 19**, Richardson et al. discloses a computer (**portable computer 10**, see Abstract, column 1, line 65) and associated method comprising a computing display subsystem (display housing 14 with :

a processor (**display controller 52**, column 3, lines 4-8, figure 7);

a communication adapter (**adapters 54a/54b**, column 3, lines 8-12, figure 7) that permits said computing display subsystem to communicate with a base station when said computing display subsystem is detached from said base station (column 2, lines 5-9); and

a detachable connection to said base station (**detachable connectors**, column 2, lines 28-30).

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As to **claim 20**, the computing display subsystem of claim 19 (see the same citation for claim 19) wherein said computing display subsystem includes a power supply separate from the base station(**power supply 60**, column 3, lines 18-19).

As to **claim 21**, the computing display subsystem of claim 19 (see the same citation for claim 19) wherein said computing display subsystem and said base station communicate using infrared signals (**infrared communication link**, column 2, lines 10-11, column 3, lines 31-32).

As to **claim 22**, the computing display subsystem of claim 19 (see the same citation for claim 19) wherein said computing display subsystem and said base station communicate using radio frequency signals (**radio frequency communication link**, column 2, line 11).

As to **claim 26**, the computing display subsystem of claim 19 (see the same citation for claim 19) wherein said computing display subsystem communicates with the base station via a Bluetooth protocol (**Bluetooth radio link**, column 3, lines 59-60).

As to **claim 27**, the computing display subsystem of claim 22 (see the same citation for claim 19) wherein said base station includes a keyboard and a connection to a network (**keyboard 16, modem 50** as shown in figure 7, column 3, lines 1-3).

As to **claim 28**, the computing display subsystem of claim 19 (see the same citation for claim 19) wherein the processor of the computing display subsystem operates at two separate power

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modes contingent on a power source (**power supply 60 is a battery power supply but the power supply may include an AC adapter to power the display 18, capacitive storage element, column 3, lines 18-30).**

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 5-6, 15-16, 23-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Richardson et al.

As to **claims 5, 15 and 23**, Richardson et al. teaches a computer comprising a computing display subsystem (see claim 1) including a writeable display (**touch screen display, user screen inputs sent to the controller, column 3, lines 47-49).** **However, Richardson et al. fails to expressly teach a LCD display. Note that , at the time of the invention, it is well known in the art that LCD display is used in portable electronic device with display. It would have been obvious to a person of ordinary skill in the art at the time of the invention to utilize the apparatus taught by Richardson et al. and provide LCD display to obtain the apparatus Richardson et al. modified because it would provide a display with very low weight and low power requirement, extremely useful in case of battery as means of power source.**

As to **claims 6 , 16 and 24**, the computer of claim 5 and associated method (see same citation for claim 5) wherein the computing display subsystem includes a storage device (**since**

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Richardson et al. teaches information is sent back to controller to enable intensity adjustment, user screen input sent to controller, column 3, lines 44-49, this indicates that memory has to be present and coupled to display controller to temporarily store then process said information, said user screen input).

Allowable Subject Matter

9. Claims 7, 17 and 25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

As to claims 7, 17 and 25, none of prior art teaches a computer comprising a base station and a computing display subsystem detachably connectable to said base station, wherein the computing display subsystem includes a non-volatile storage device.

CONCLUSION

10. The prior art made of record is not relied upon but pertinent to Applicant's disclosure.

US Patent	Tran et al.	5,805,415
US Patent	Ishizawa et al.	5,347,630
US Patent	Bodenmann et al.	6,078,789
US Patent	Brauel	5,781,407
US Patent	Lincke et al.	6,300,946
US Patent	Croy et al.	6,476,825

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Reference Tran et al. is made of record as it discloses a detachable flat panel computer display and support.

Reference Ishizawa et al. is made of record as it discloses a computer system having a detachable display.

Reference Bodenmann et al. is made of record as it discloses a method and apparatus for wireless communication between a host and peripheral devices.

Reference Brauel is made of record as it discloses a portable personal computer with multi-directional infrared communication.

Reference Lincke et al. is made of record as it discloses a method and apparatus for interacting with a portable computer.

Reference Croy et al. is made of record as it discloses a hand-held video viewer and remote control device.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **FRANCIS N NGUYEN** whose telephone number is **703 308-8858**. The examiner can normally be reached during hours 8:00 AM- 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **RICHARD A HJERPE** can be reached at 703 305-4579.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

Art Unit: 2674

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,
Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding
should be directed to the Technology Center 2600 Customer Service whose telephone number is
(703) 306-0377.



December 20th, 2002

FRANCIS N NGUYEN
Examiner
Art Unit 2674